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U.S. Application No. 09/995,647 Art Unit 2194
§ 1.116 Amendment After Final in Response to September 7, 2005 Final Office Action

AMENDMENT TO THE CLAIMS

1. (Cancel)
2. (Currently Amended) A computer system according to claim + 6, wherein the manipulation rules are organized as a table-based system.
3. (Cancel)
4. (Currently Amended) A computer system according to claim 3 6, wherein the highest priority view contains data describing a name of the highest priority view and an application name, the application name differentiating field names from those in other applications.
5. (Cancel)
6. (Currently Amended) ~~A computer system according to claim 5, wherein if the data to be manipulated does not contain an entry matching the second highest priority view, then the data is manipulated according to generic functions~~

A computer system for use with web-based applications comprising:

a web browser application;

at least one web form running on the web browser;

a web server capable of processing web-based forms;

a database stored in memory, the memory coupled to said computer system, wherein said web server is used for manipulating data with rules compiled in said web browser from said database; and

files containing manipulation rules in said database, the manipulation rules comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions;

wherein the data is manipulated according to a highest priority view; and

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if the data to be manipulated does not contain an entry matching the highest priority view, then the data is manipulated according to a second-highest priority view; and

if the data to be manipulated does not contain an entry matching the second-highest priority view, then the data is manipulated according to generic functions.

7. (Currently Amended) A computer system according to claim 1 6, wherein said manipulation rules manipulate long distance ordering functions.
8. (Currently Amended) A computer system according to claim 5 6, wherein the second-highest priority view contains data describing a generic string that is used to match a name of the highest priority view to a defined character.
9. (Currently Amended) A computer system according to claim 3 6, wherein the highest priority view has the execution sequence of first converting date data to a four-digit year, then converting the date data to 01/01/1996 if not prior to that date, then converting the date data to 12/31/2002 if after that date.
10. (Currently Amended) A computer system according to claim 1 7, wherein said manipulation rules are represented in the form of Lightweight Directory Access Protocol.
11. (Cancel)
12. (Currently Amended) A computer system according to claim 1 6, wherein said database is represented by Lightweight Directory Access Protocol.
13. (Cancel)
14. (Currently Amended) A web server system according to claim 13 19, comprising means for initiating a recompiling of said at least one web application.
15. (Cancel)

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16. (Currently Amended) A web server system according to claim ~~13~~ 19, wherein said manipulation rules are stored in the form of Lightweight Directory Access Protocol.
17. (Cancel)
18. (Cancel)
19. (Currently Amended) ~~A web server system according to claim 18, wherein if the data to be manipulated does not contain an entry matching the second highest priority view, then the data is manipulated according to generic functions~~

A web server system comprising:

a plurality of web browser applications;

means for performing manipulation service on data submitted by said at least one of the web browser applications;

means for processing web forms;

means for storing and retrieving a plurality of manipulation rules for performing said manipulation service, the manipulation rules comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions; and

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means for compiling manipulation rules into said at least one web application in order to perform said manipulation service;

wherein the data is manipulated according to a highest priority view;

if the data to be manipulated does not contain an entry matching the highest priority view, then the data is manipulated according to a second-highest priority view;
and

if the data to be manipulated does not contain an entry matching the second-highest priority view, then the data is manipulated according to generic functions.

20. (Currently Amended) A web server system according to claim ~~13~~ 19, wherein said manipulation rules manipulate long distance ordering.
21. (Currently Amended) A web server system according to claim ~~17~~ 19, wherein the highest priority view has the execution sequence of first converting date data to a four-digit year, then converting the date data to 01/01/1996 if not prior to that date, then converting the date data to 12/31/2002 if after that date.
22. (Currently Amended) A web server system according to claim ~~18~~ 19, wherein the second-highest priority view contains data describing a generic string that is used to match a name of the highest priority view to a defined character.
23. (Currently Amended) A computer-readable medium comprising with instructions for performing the steps executable by a processor for providing a manipulation application service for web-based applications, the medium comprising instructions to:
~~receive a service request to a web server, the service request including data to be manipulated;~~
~~generate a service session instruction, the service session instruction based at least in part on the service request;~~
~~send the service session instruction to one or more web servers, the service session instruction corresponding to one or more data manipulation requests from said~~

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customer data device;

~~compile at least one page based on stored manipulation rules in a database, the manipulation rules comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions; and~~

~~receive a manipulation service response, wherein the manipulation service response is based on the service request~~

calling at least one server page from a web application;

compiling said at least one server page at a web server;

retrieving stored manipulation rules from centralized storage coupled to said web server, the manipulation rules comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions; and

manipulating data provided from said web application in accordance with said manipulation rules;

wherein the manipulation rules manipulate data according to a highest priority view;

if the data to be manipulated does not contain an entry matching the highest priority view, then manipulating the data according to a second-highest priority view; and

if the data to be manipulated does not contain an entry matching the second-highest priority view, then manipulating the data according to generic functions.

- 24. (Cancel)
- 25. (Cancel)
- 26. (Cancel)

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27. (Currently Amended) ~~A method according to claim 26, wherein if the data to be manipulated does not contain an entry matching the second highest priority view, then manipulating the data according to generic functions~~

A computer implemented method of providing manipulation data service with a web-based computer system comprising the steps of:

calling at least one server page from a web application;

compiling said at least one server page at a web server;

retrieving stored manipulation rules from centralized storage coupled to said web server, the manipulation rules comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions; and

manipulating data provided from said web application in accordance with said manipulation rules;

wherein the manipulation rules manipulate data according to a highest priority view;

if the data to be manipulated does not contain an entry matching the highest priority view, then manipulating the data according to a second-highest priority view; and

if the data to be manipulated does not contain an entry matching the second-highest priority view, then manipulating the data according to generic functions.

28. (Currently Amended) A method according to claim 24 27, wherein said manipulation rules manipulate long distance ordering.
29. (Currently Amended) A method according to claim ~~25~~ 27, wherein the highest priority view has the execution sequence of first converting date data to a four-digit year, then converting the date data to 01/01/1996 if not prior to that date, then converting the date data to 12/31/2002 if after that date.

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30. (Currently Amended) A method according to claim ~~26~~ 27, wherein the second-highest priority view contains data describing a generic string that is used to match a name of the highest priority view to a defined character.
31. (Currently Amended) A method according to claim ~~24~~ 27, wherein said manipulation rules manipulate long distance ordering information having a highest priority view representing valid installation dates, a second-highest priority view representing available installation dates, and a generic view representing an allowable number of telephones.
32. (Cancel)
33. (Currently Amended) A method according to claim ~~24~~ 27, wherein retrieving the stored manipulation rules comprises retrieving the manipulation rules in the form of an Lightweight Directory Access Protocol.
34. (Cancel)
35. (Cancel)
36. (Cancel)
37. (Currently Amended) ~~A method according to claim 36, wherein if the data to be manipulated does not contain an entry matching the second highest priority view, then manipulating the data according to generic functions~~

A computer implemented method for validating data with a web server system, the method comprising:

- a step for sending a data manipulation service request from a web user;
- a step for generating a manipulation service instruction, the service instruction based at least in part on the manipulation service request from said web user;
- a step for compiling a server page into class files;
- a step for reading manipulation rules from a database, the manipulation rules

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comprising at least three hierarchically organized views, with each view utilizing an execution sequence of manipulation functions;

a step for configuring the data manipulation information in the memory of a running program;

a step for executing a manipulation function in accordance with the manipulation rules;

wherein the manipulation rules manipulate data according to a highest priority view;

if the data to be manipulated does not contain an entry matching the highest priority view, then manipulating the data according to a second-highest priority view; and

if the data to be manipulated does not contain an entry matching the second-highest priority view, then manipulating the data according to generic functions.

38. (Currently Amended) A method according to claim ~~35~~ 37, wherein the highest priority view has the execution sequence of first converting date data to a four-digit year, then converting the date data to 01/01/1996 if not prior to that date, then converting the date data to 12/31/2002 if after that date.